

SECURITY INFORMATION

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TRANSDUCER INDEX

Answers to Your Questions:

1. Design Engineer or Physicist.
2. You may go into complete technical detail.
3. Your definition is essentially correct; however, it should be expanded to include devices with mechanical or other outputs which could readily be converted to electrical. It is realized that such devices would represent a small percentage of the total, but are nevertheless important.
4. It is understood that you are to send us a technical report, including a list of the factors which contribute to the figure of merit. We will provide our comments on the weight which each factor should carry. The answer to this question is therefore pending the receipt of your report.
5. The output electrical energy might or might not be telemetered; the assumption is not correct. The answer to question 6 clarifies the lack of need for such an assumption.
6. It is felt unnecessary to describe any circuitry following the transducer. As discussed, the transducers and actuators, as defined by us mutually, should be listed and described as units. It is contemplated that a separate phase will be in order following the completion of the transducer and actuator phases to list the possible combinations of both in systems.
7. The index should carry as its primary objective separation according to type; its use need not be described beyond the basic physical principle upon which it operates - pressure, temperature, etc. This is in line with the answer to question No. 6, which says that another phase is in order.
8. Under the first phase of this program, we are interested in all available transducers - commercial, and military - not only those which can be purchased on the open market, but also those in research and development on which information can be conveniently obtained. At the completion of this phase we will probably discuss a program for the continuing compilation of such information to keep the index up to date.

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9. Miniaturization is extremely important - this will be reflected in the determination of a figure of merit.
10. Answered by the answer to question Nos. 5 and 6.
11. Such susceptibilities are important in the selection of a transducer for a particular purpose; however, no one limiting characteristic should necessarily exclude it from the index. Such factors will be examined as factors in the figure of merit.

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